

Appl. No. 10/643,669
Docket No. 9346
Amdt. dated 26 November 2007
Reply to Office Action mailed on 3 July 2007
Customer No. 27752

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A water filter device for treating untreated drinking water,
said water filter device comprising:
 - (a) a connector for providing fluid communication between said water filter device and an untreated drinking water source;
 - (b) a low-pressure water filter in fluid communication with said connector, said low-pressure water filter for treating untreated drinking water, said water filter comprising a water filter material, said water filter material comprising filter particles consisting of mesoporous activated carbon, and said water filter having a Filter Bacteria Log Removal of greater than about 2 logs, wherein:
 - (i) the sum of the mesopore and macropore volumes of said filter particles is between about 0.2 mL/g and about 2 mL/g, wherein mesopore means an intra-particle pore having a diameter between 2 nm and 50 nm, and macropore means an intra-particle pore having a diameter greater than 50 nm;
 - (ii) the total pore volume of said filter particles is greater than about 0.4 mL/g and less than about 3 mL/g; and
 - (iii) the ratio of the sum of mesopore and macropore volumes to the total pore volume of said filter particles is greater than about 0.3;
 - (c) a storage housing in fluid communication with said low-pressure water filter, said storage housing for storing treated drinking water treated by said water filter;

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- (d) an automatic shutoff valve in fluid communication with said storage housing, said automatic shutoff valve for arresting the flow of treated drinking water into said storage housing; and
- (e) a dispenser in fluid communication with said storage housing, said dispenser for dispensing treated drinking water from said storage housing;

wherein the treated drinking enters into said storage housing at the rate of at least about 5 mL/min but not greater than about 2,000 mL/min until activating said automatic shutoff valve, such that the flow of treated drinking water into said storage housing is arrested, ~~and~~ wherein said water filter device is a non-electric water filter device, and wherein said water filter device is operable to remove microorganisms from said untreated drinking water flowing into said connector and out of said low-pressure water filter.

- 2. (Cancelled)
- 3. (Currently Amended) The water filter device of claim 1, wherein said ~~water filter material comprises~~ mesoporous activated carbon particles comprise mesoporous and basic activated carbon particles.
- 4. (Currently Amended) The water filter device of claim 1, wherein said ~~water filter material comprises~~ mesoporous activated carbon particles comprise mesoporous, basic, and reduced-oxygen activated carbon particles.
- 5. (Previously Presented) The water filter device of claim 1, wherein said water filter comprises a Filter Viruses Log Removal of greater than about 1 log.
- 6. (Currently Amended) The water filter device of claim 1, wherein said water filter comprises a Filter Bacteria Log Removal of greater than about 3 ~~4~~ logs and a Filter Viruses Log Removal of greater than about 2 logs.

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7. (Currently Amended) The water filter device of claim + 6, wherein said water filter comprises a Filter Bacteria Log Removal of greater than about ~~[[4]]~~ 6 logs and a Filter Viruses Log Removal of greater than about ~~3~~ 4 logs.
8. (Original) The water filter device of claim 1, wherein said automatic shutoff valve comprises a float.
9. (Original) The water filter device of claim 1, wherein said water filter device further comprises a flow regulator, wherein said flow regulator regulates the flow of the untreated drinking water such that the average fluid contact time is greater than about 2 seconds up to about 120 psi.
10. (Original) The water filter device of claim 1, wherein said water filter device further comprises a flow regulator, wherein said flow regulator regulates the flow of the untreated drinking water such that the average fluid contact time is greater than about 4 seconds up to about 120 psi.
11. (Previously Presented) The water filter device of claim 1, wherein said water filter device further comprises a threadably attachable filter vessel for containing said water filter, wherein said filter vessel may be opened with from about 5 inch-lbs to about 100 inch-lbs of torque.
12. (Original) The water filter device of claim 1, wherein said water filter device further comprises a filter vessel for containing said water filter, wherein at least a portion of said filter vessel is oriented on a front or side portion of said water filter device.
13. (Original) The water filter device of claim 1, wherein said water filter device further comprises a filter vessel for containing said water filter, wherein the height

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of said filter vessel is less than about 75 % the height of the water filter device.

14. (Original) The water filter device of claim 1, wherein said storage housing may be separably removed from said water filter device.
15. (Previously Presented) The water filter device of claim 1, wherein said storage housing comprises a window for viewing the volume of treated drinking water contained within said storage housing.
16. (Previously Presented) The water filter device of claim 1, wherein said water filter device further comprises a means of indicating the life of the water filter.
17. (Original) The water filter device of claim 1, wherein said water filter further comprises a pre-filter, wherein said pre-filter is selected from the group consisting of melt-blown polypropylene, non-woven polymer, micro-glass fiber, and non-woven cellulose filter material.
18. (Original) The water filter device of claim 1, wherein said storage housing has an interior volume from about 500 mL to about 2,000 mL.
19. (Currently Amended) ~~A water filter device for treating untreated drinking water, said water filter device comprising:~~ The water filter device of claim 1, wherein said water filter device further comprises

~~(a) a connector for providing fluid communication between said water filter device and an untreated drinking water source;~~

~~(b) a low pressure water filter in fluid communication with said connector, said low pressure water filter for treating untreated drinking water, said water filter comprising a water filter material, said water filter material comprising filter particles consisting of~~

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~~mesoporous activated carbon, and said water filter having a Filter Bacteria Log Removal of greater than about 2 logs and a Filter Viruses Log Removal of greater than about 1 log;~~

- (e) a filter vessel in fluid communication with said connector, said filter vessel for containing said water filter;
- ~~(d) a storage housing in fluid communication with said low pressure water filter, said storage housing for storing treated drinking water treated by said water filter;~~
- ~~(e) an automatic shutoff valve in fluid communication with said storage housing, said automatic shutoff valve for arresting the flow of treated drinking water into said storage housing; and~~
- ~~(f) a dispenser in fluid communication with said storage housing, said dispenser for dispensing treated drinking water from said storage housing;~~

~~wherein the treated drinking water enters into said storage housing at the rate of at least about 5 mL/min but not greater than about 2,000 mL/min until activating said automatic shutoff valve, such that the flow of treated drinking water into said storage housing is arrested, and wherein approximately 100 % of the untreated drinking water that enters said water filter device via said connector is treated by said water filter, wherein said water filter device is a non-electric water filter device, and wherein at least a portion of said filter vessel releasably attaches to a front or side portion of said water filter device.~~

20-22. (Cancelled)

23. (Original) The water filter device of claim 19, wherein the untreated drinking water radially enters and radially flows through said water filter material.

24. (Cancelled)

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25. (Original) The water filter device of claim 19, wherein said filter vessel may be opened with from about 5 inch-lbs to about 100 inch-lbs of torque.
26. (Original) The water filter device of claim 19, wherein said storage housing may be separably removed from said water filter device.
27. (Original) The water filter device of claim 19, wherein said water filter further comprises a pre-filter, and said pre-filter is selected from the group consisting of melt-blown polypropylene, non-woven polymer, micro-glass fiber, and non-woven cellulose filter material.
28. (Original) The water filter device of claim 19, wherein said filter vessel may be released from said water filter device using a button.
- 29-50. (Cancelled)